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Title: METHODS UTILIZING
SCANNING PROBE MICROSCOPE
TIPS AND PRODUCTS THEREOF OR
PRODUCED THEREBY
Inventor(s): Chad A. MIRKIN et al.
Appl. No.: 09/866,533

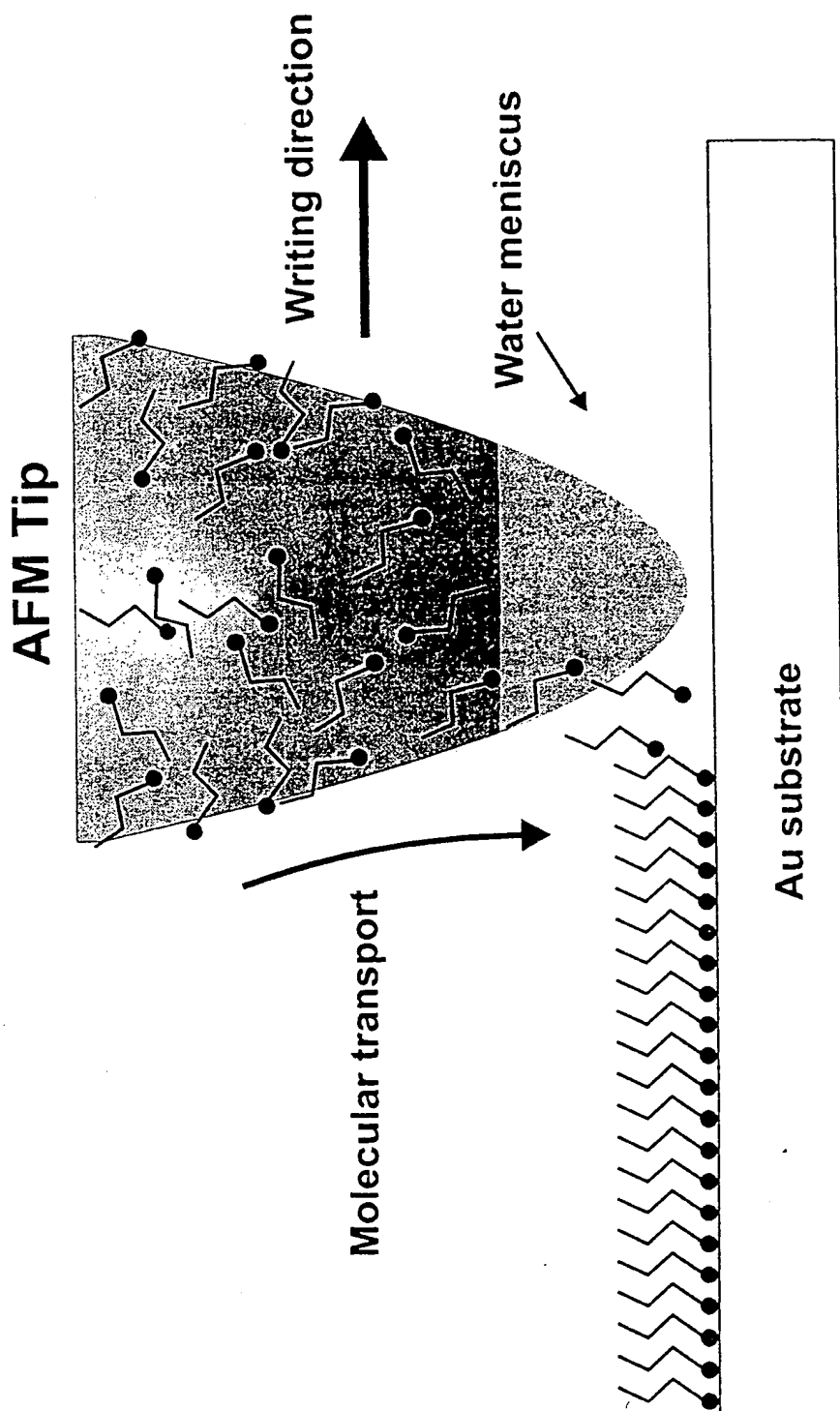
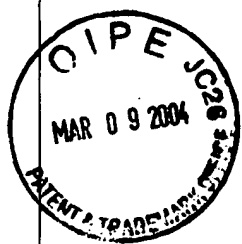


Figure 1

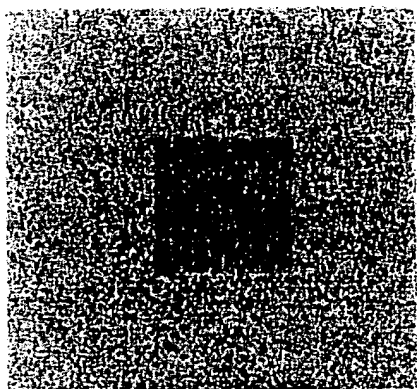


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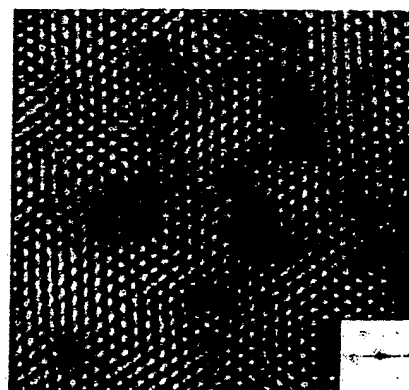
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FIG. 2A

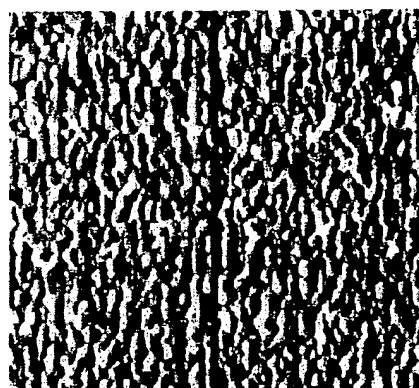


0 μm 3

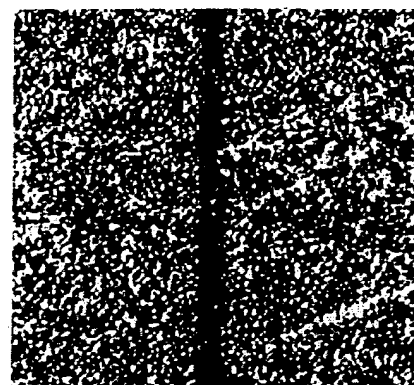
FIG. 2B



0 \AA 150



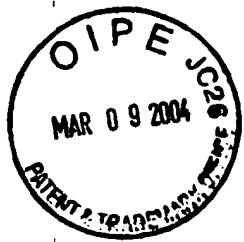
0 μm 1



0 μm 2

FIG. 2C

FIG. 2D



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FIG. 3A

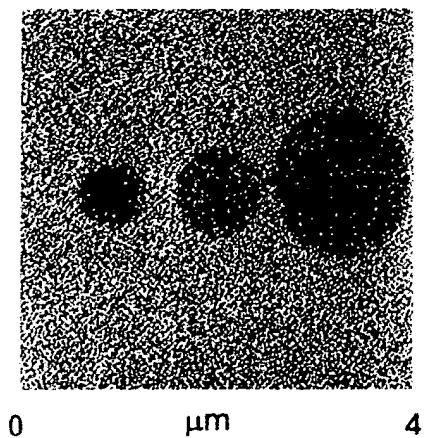


FIG. 3B

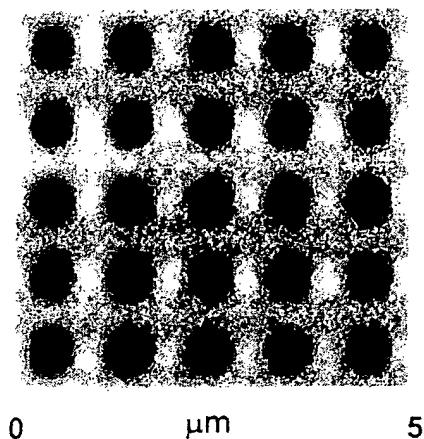
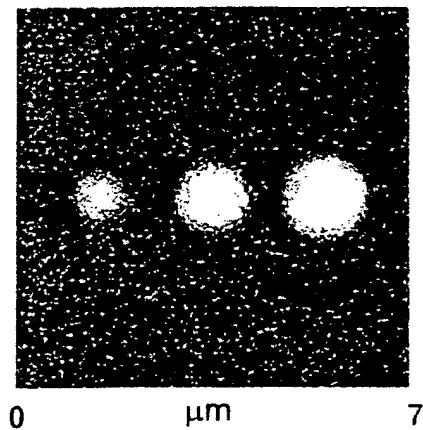


FIG. 3C

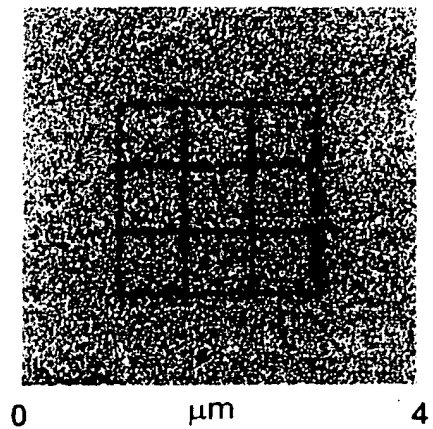


FIG. 3D



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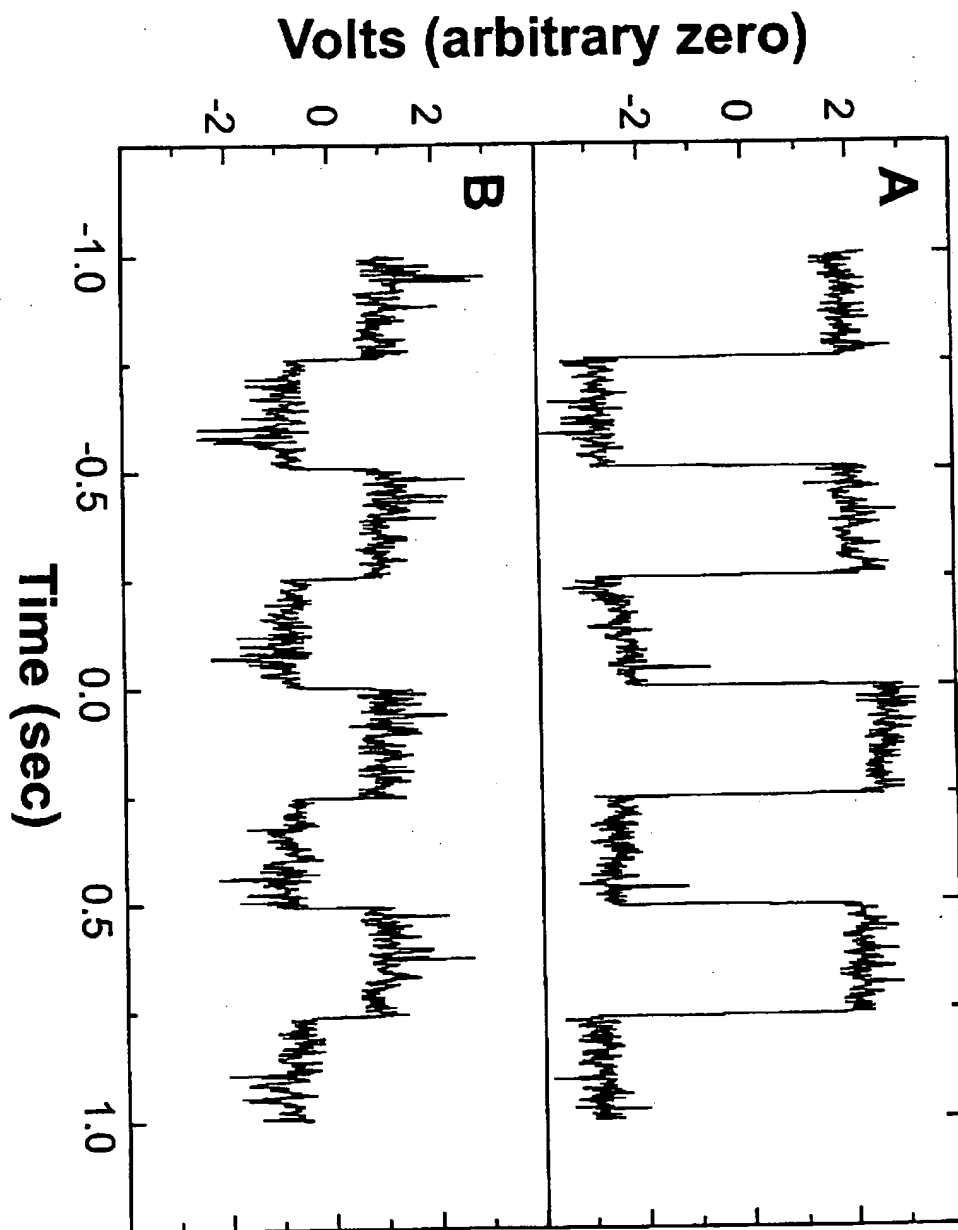
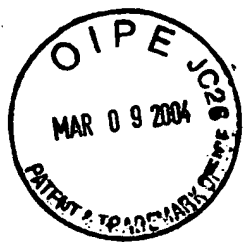


Figure 4

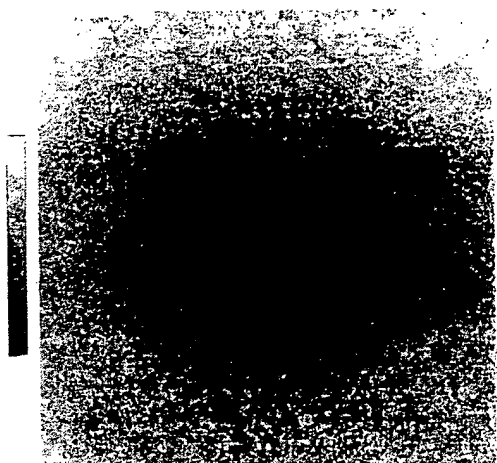


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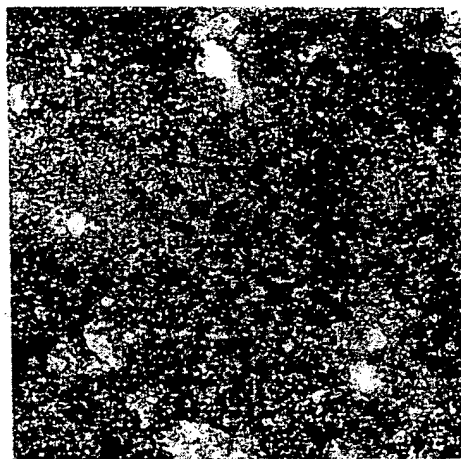
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FIG. 5A



0 μm 10

FIG. 5B



0 μm 10

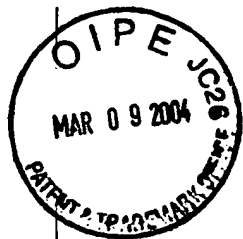


FIG. 6A

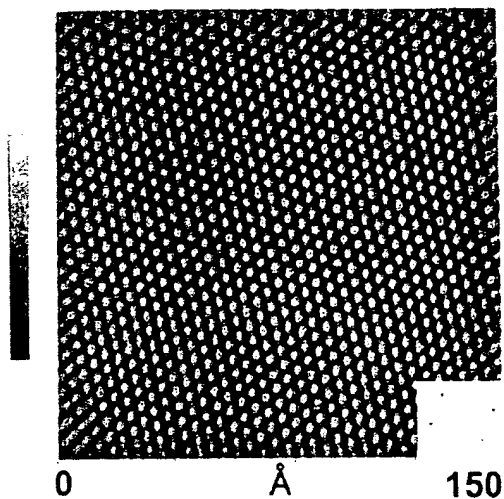


FIG. 6B

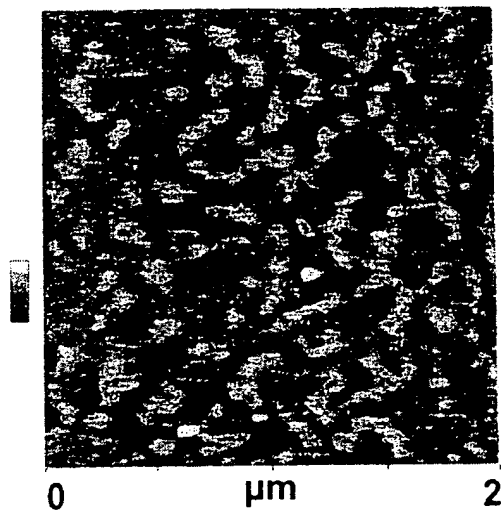
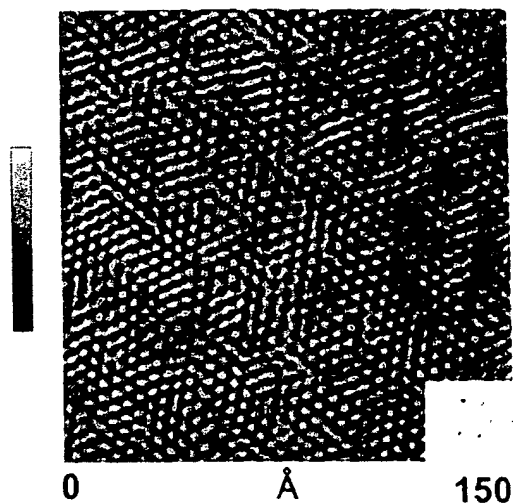


FIG. 6C

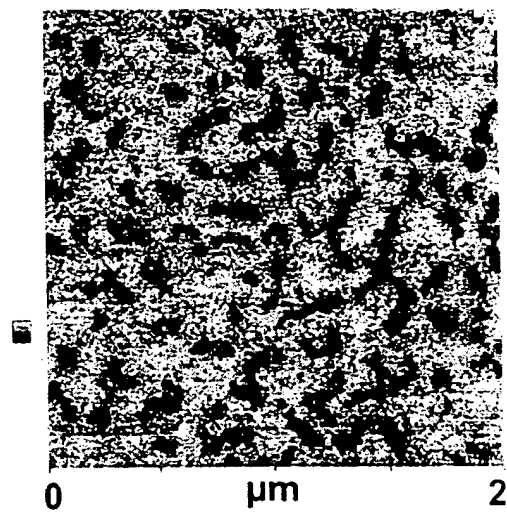
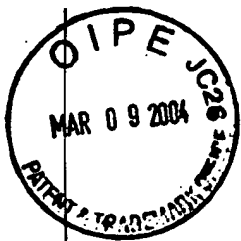
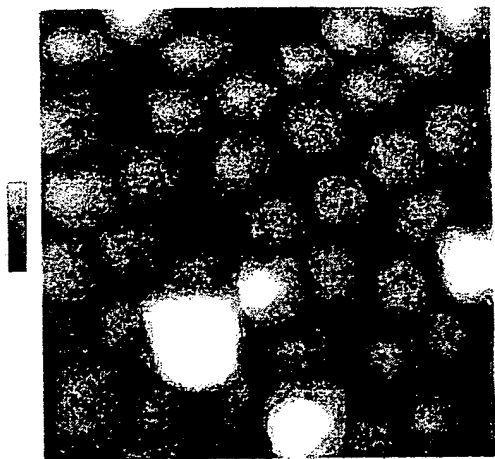


FIG. 6D



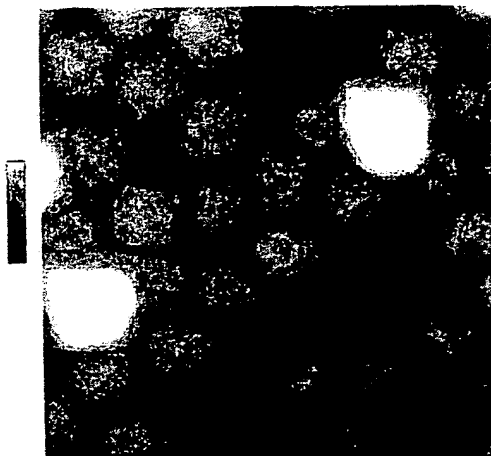
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FIG. 7A

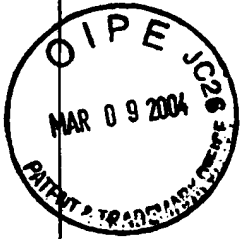


0 μm 2

FIG. 7B



0 μm 2



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FIG. 8B

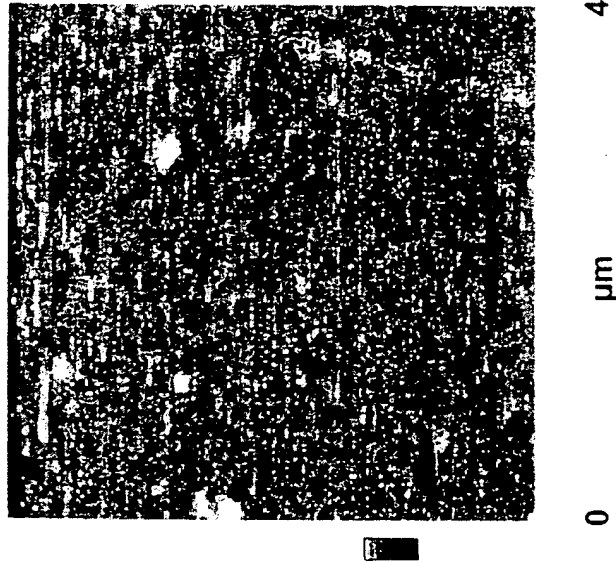


FIG. 8A

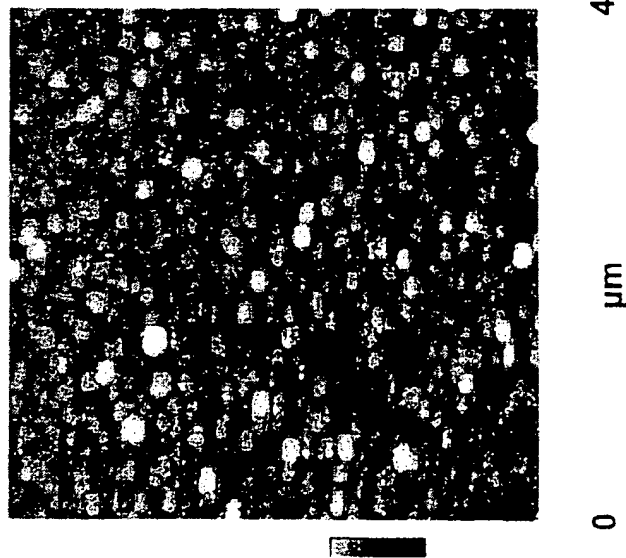




FIG. 9A

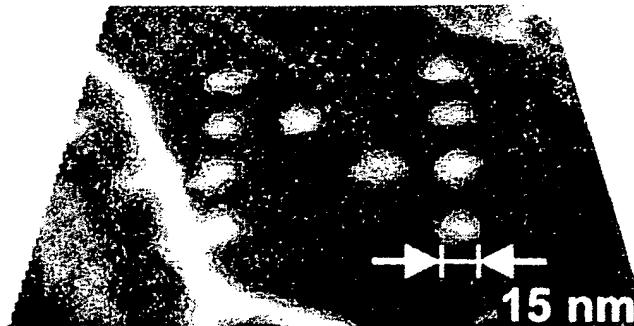


FIG. 9B

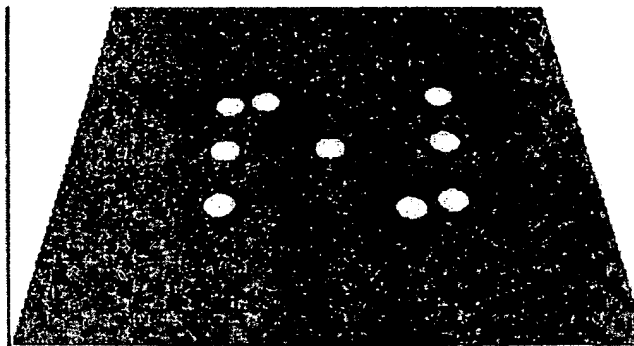


FIG. 9C



0 nm 200



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FIG. 10A

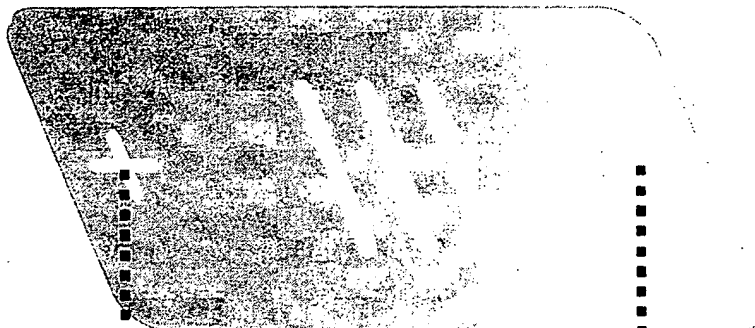


FIG. 10B

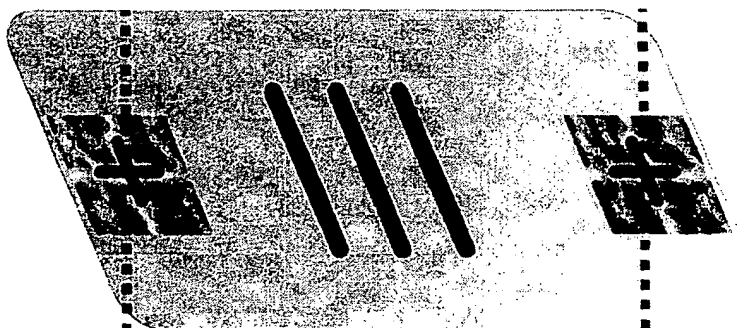
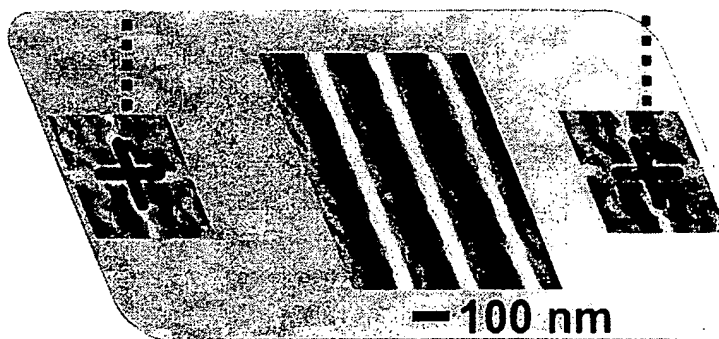
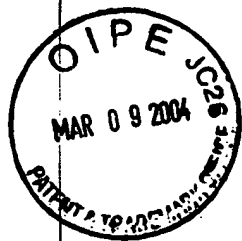


FIG. 10C





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FIG. 11A

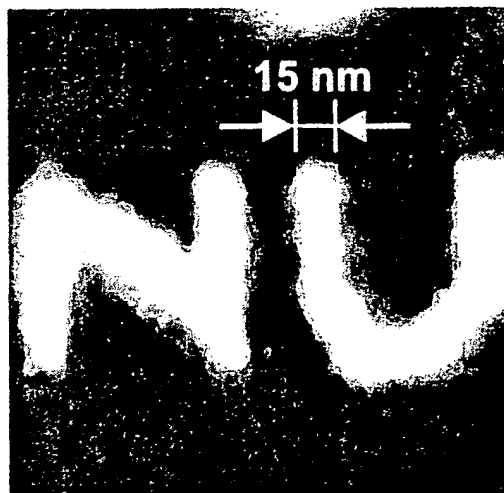
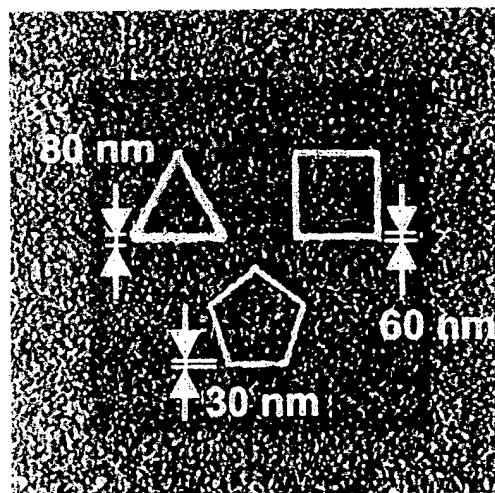


FIG. 11B



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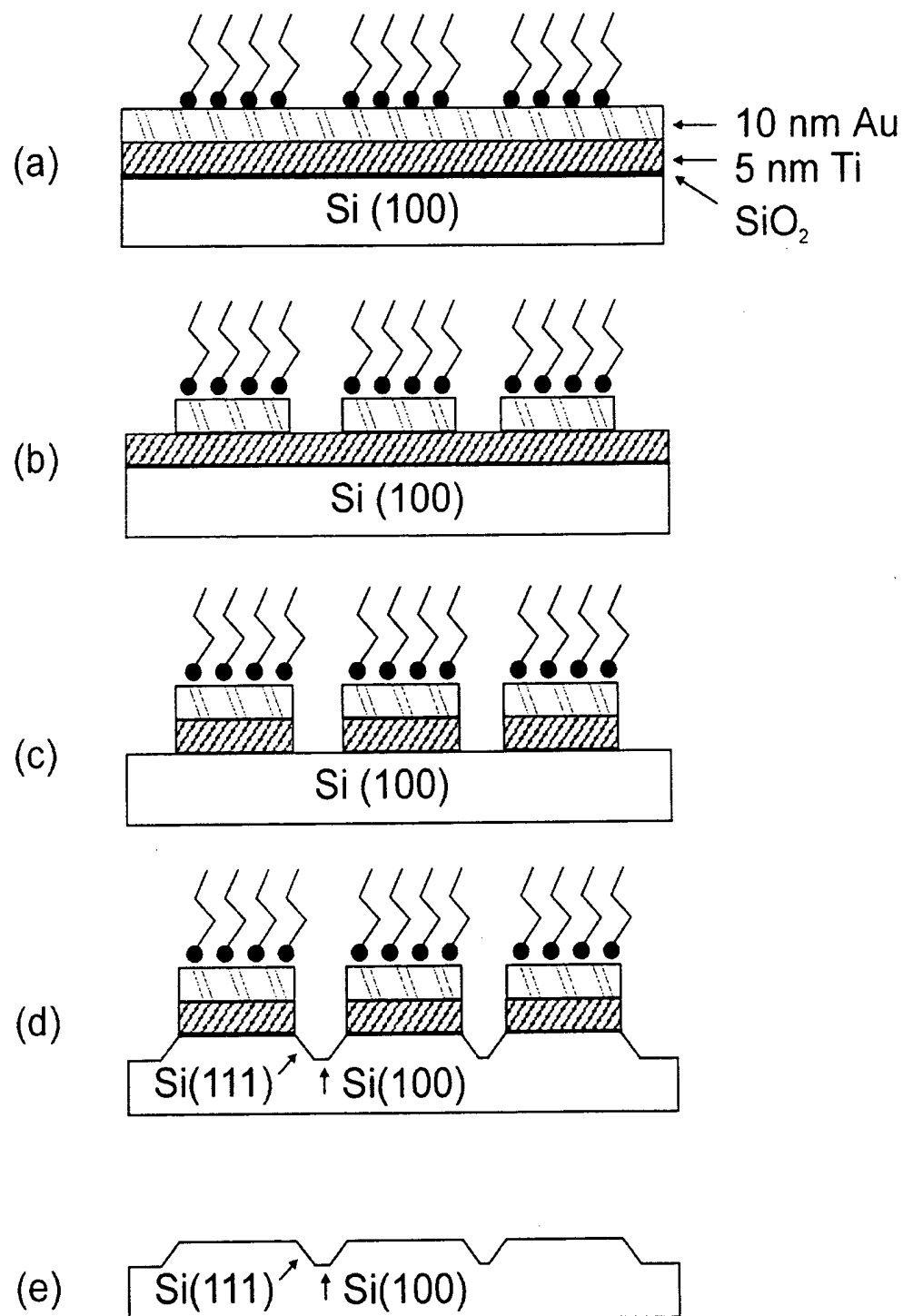
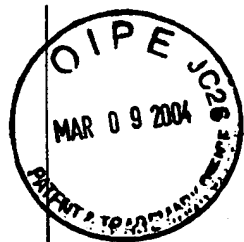


FIG. 12

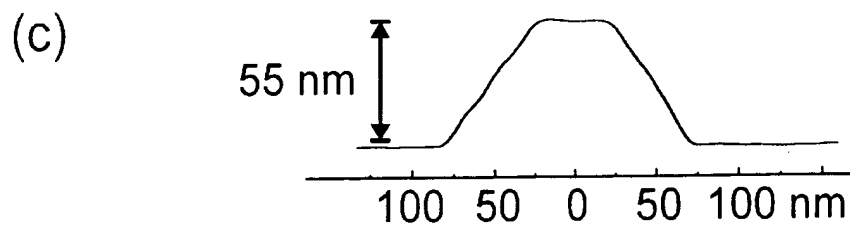
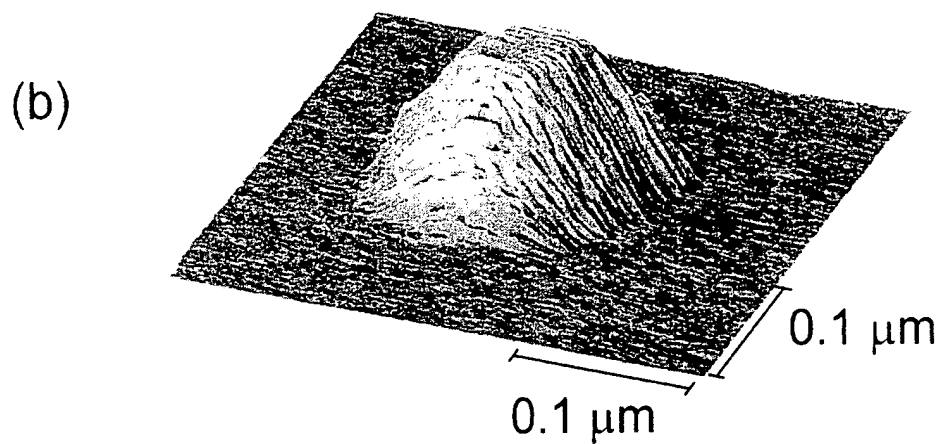
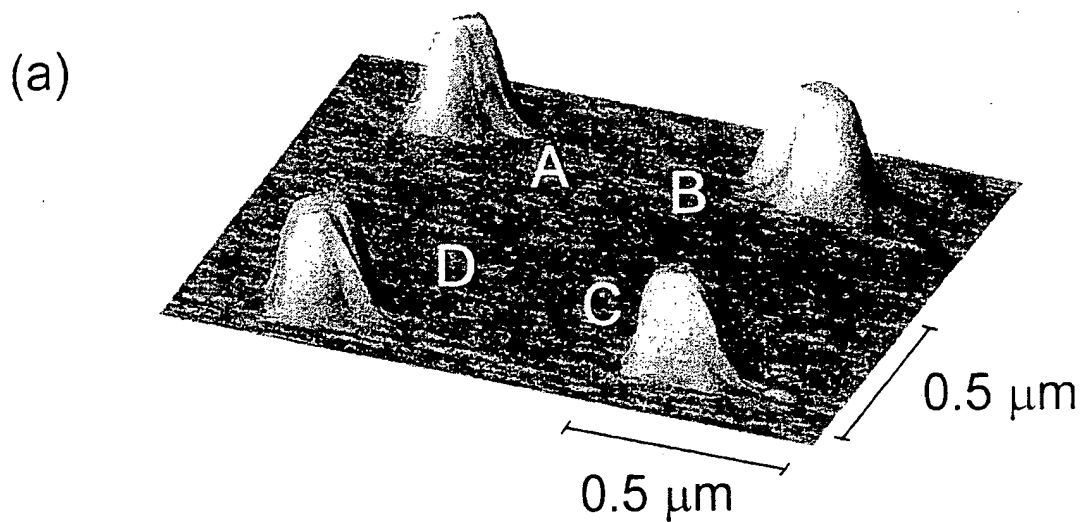
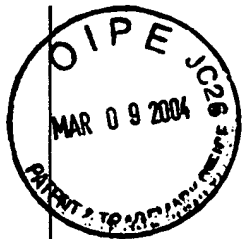
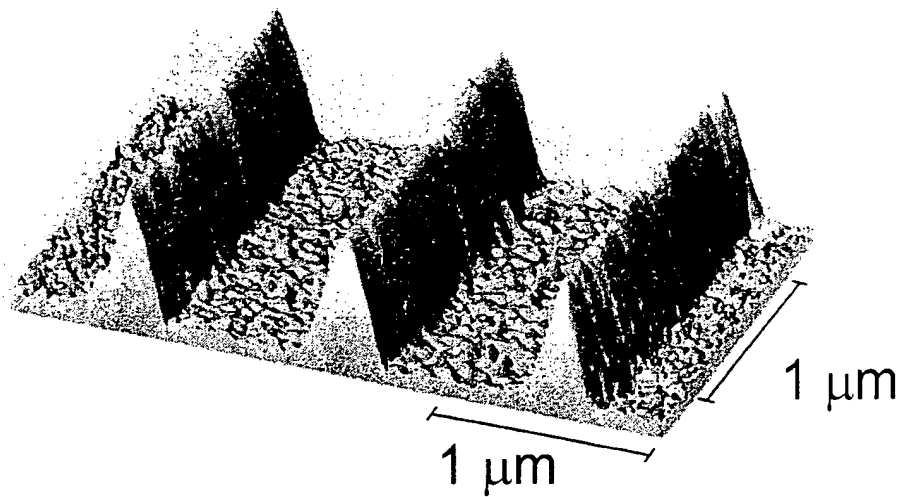


FIG. 13

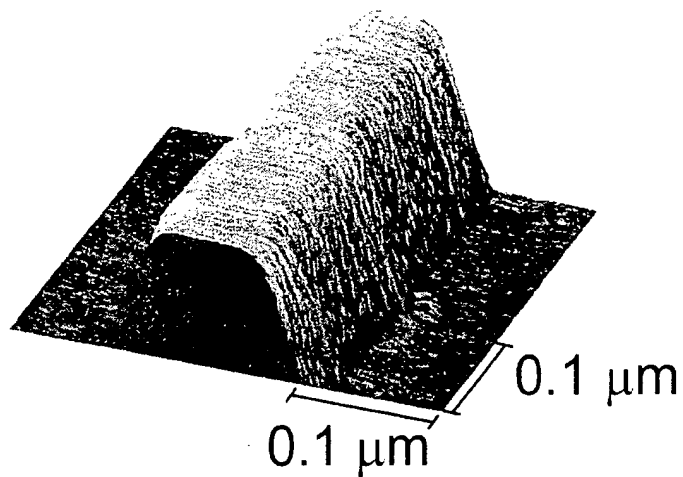


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(a)



(b)



(c)

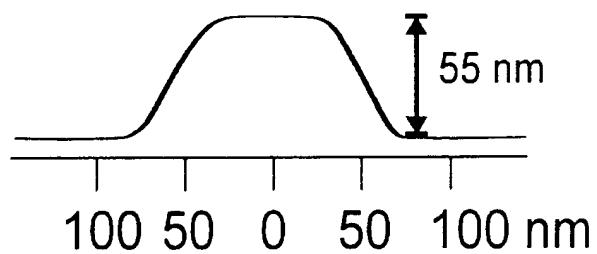


FIG. 14

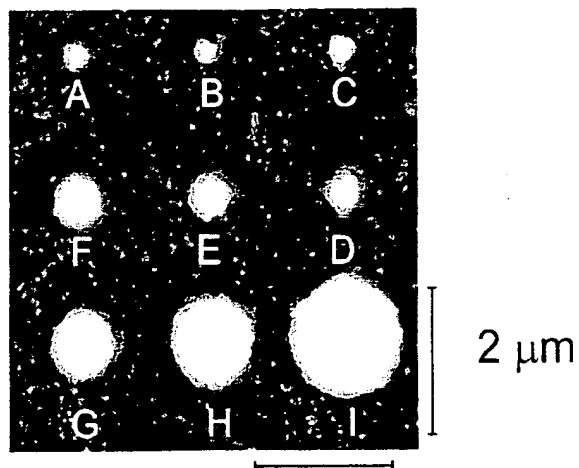


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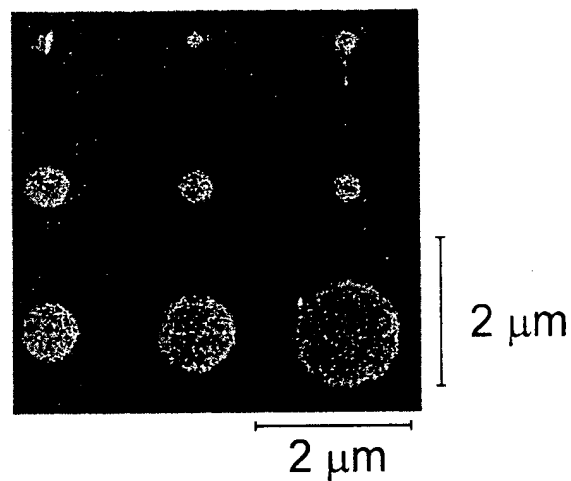
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(a)



(b)



(c)

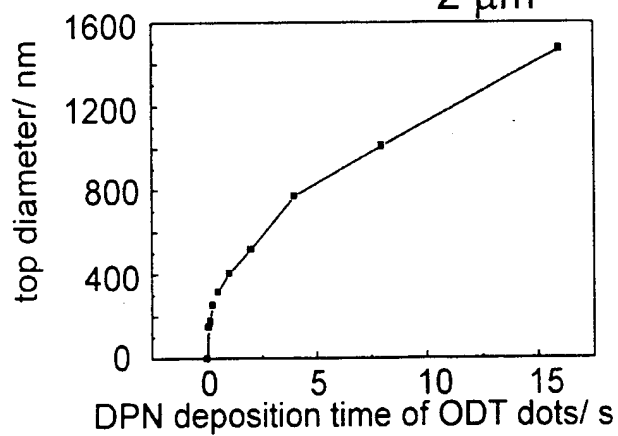
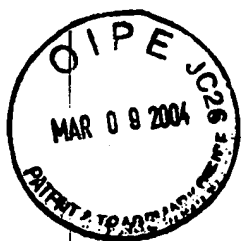


FIG. 15



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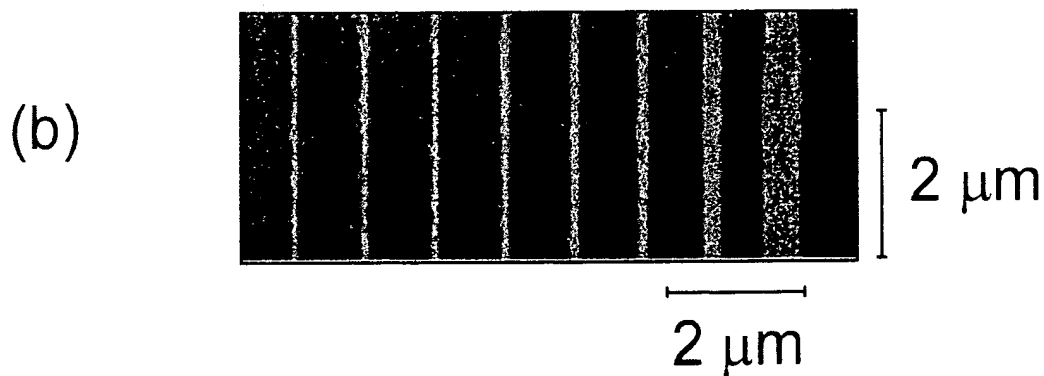
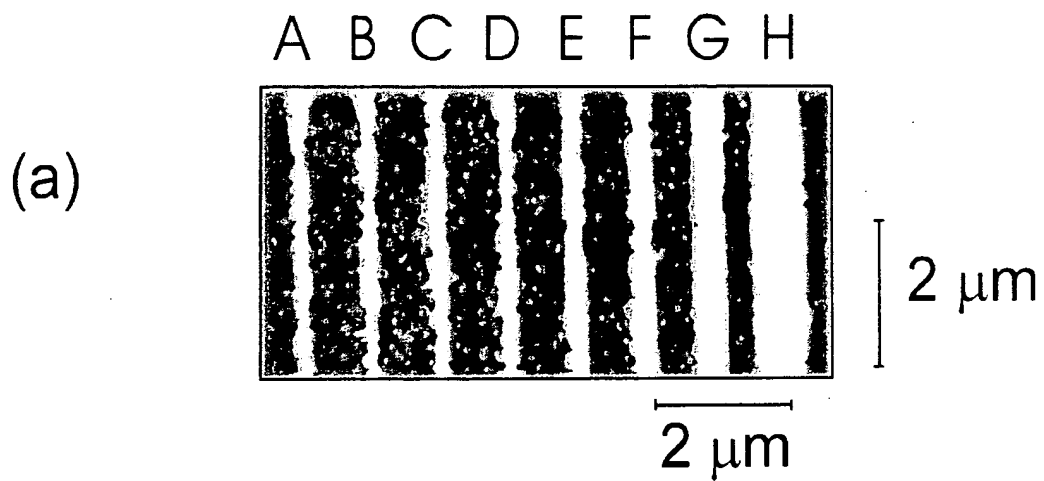


FIG. 16

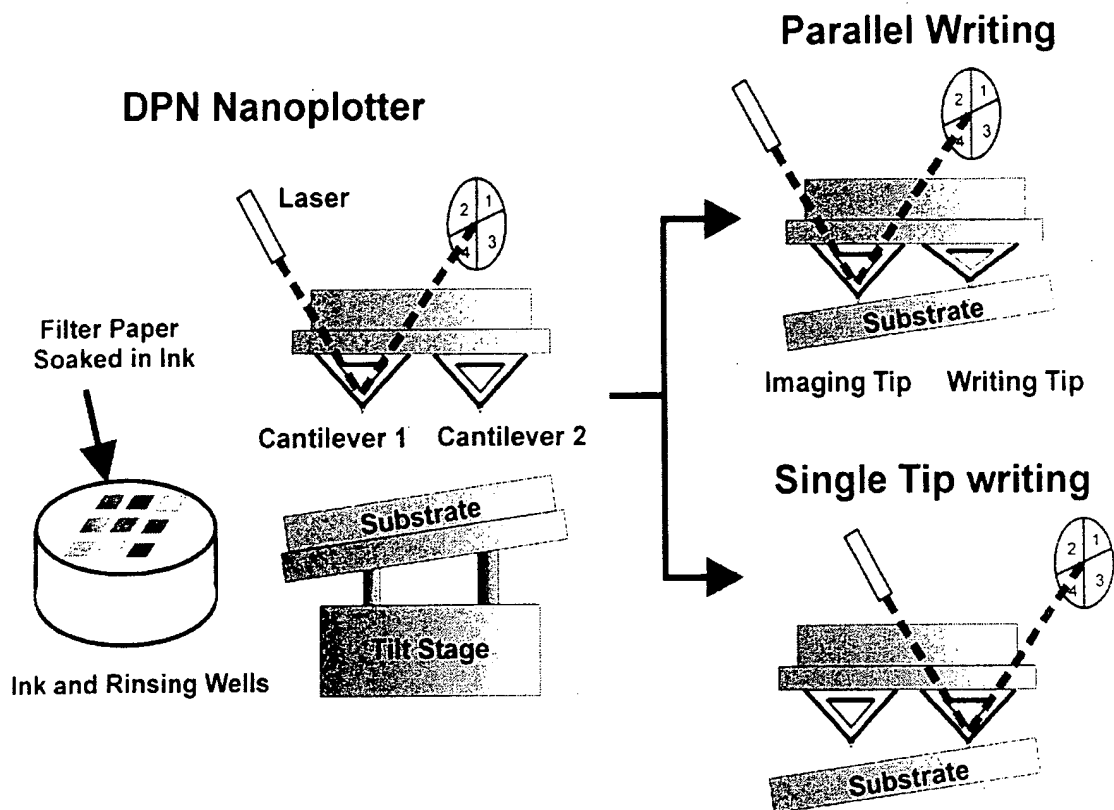


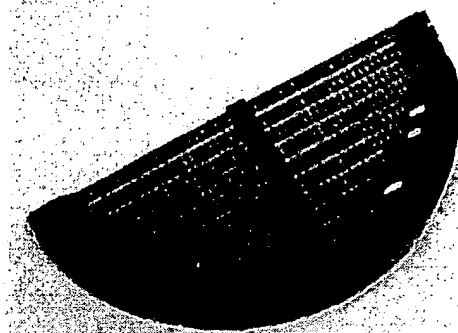
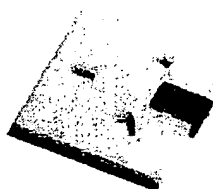
FIG. 17



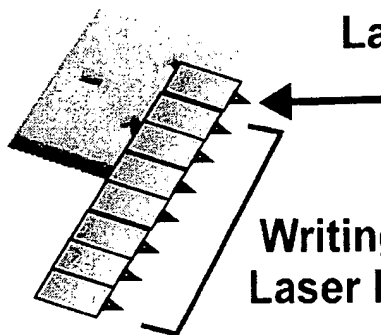
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A Wafer of Unmounted AFM Tips

Mounted Single Tip



An Imaging Tip with Laser Force Feedback



Writing Tips without Laser Force Feedback

FIG. 18



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4nN 2nN 1nN -0.1nN

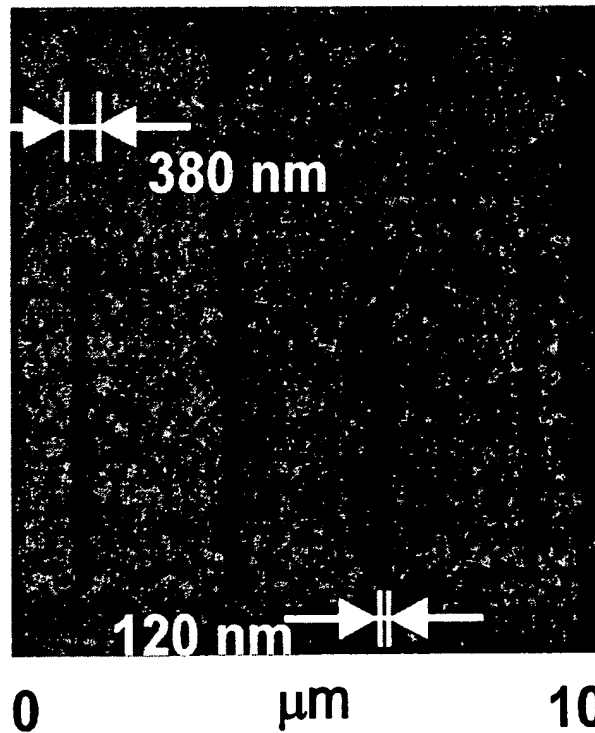


FIG. 19



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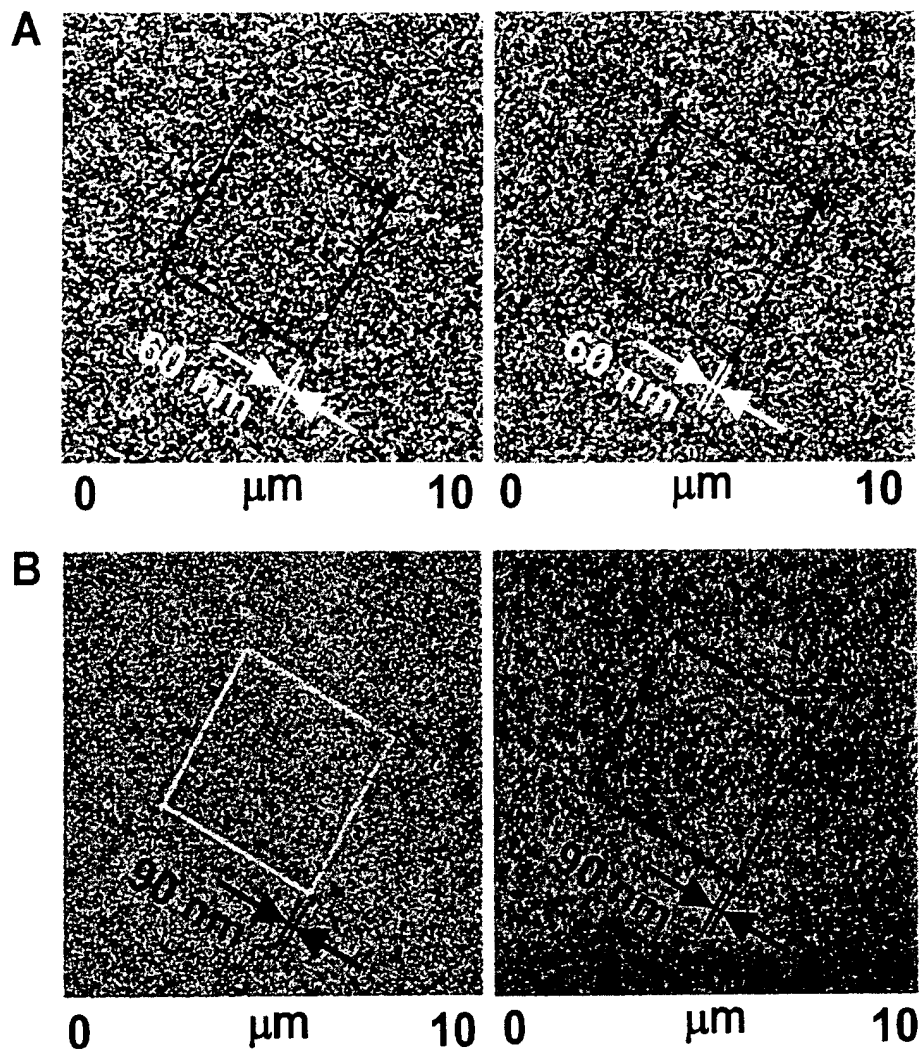


FIG. 20



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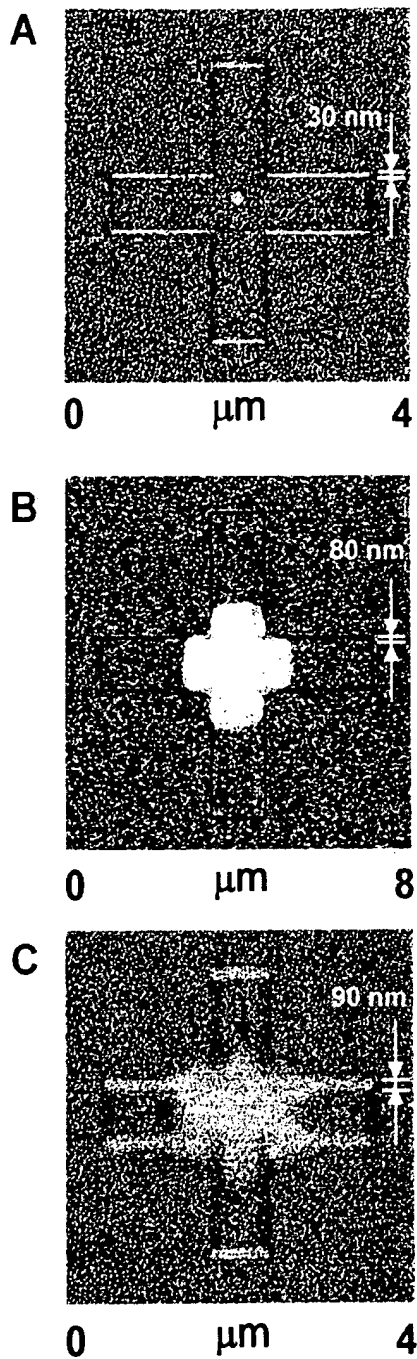
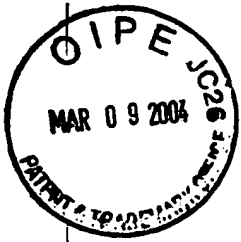


FIG. 21



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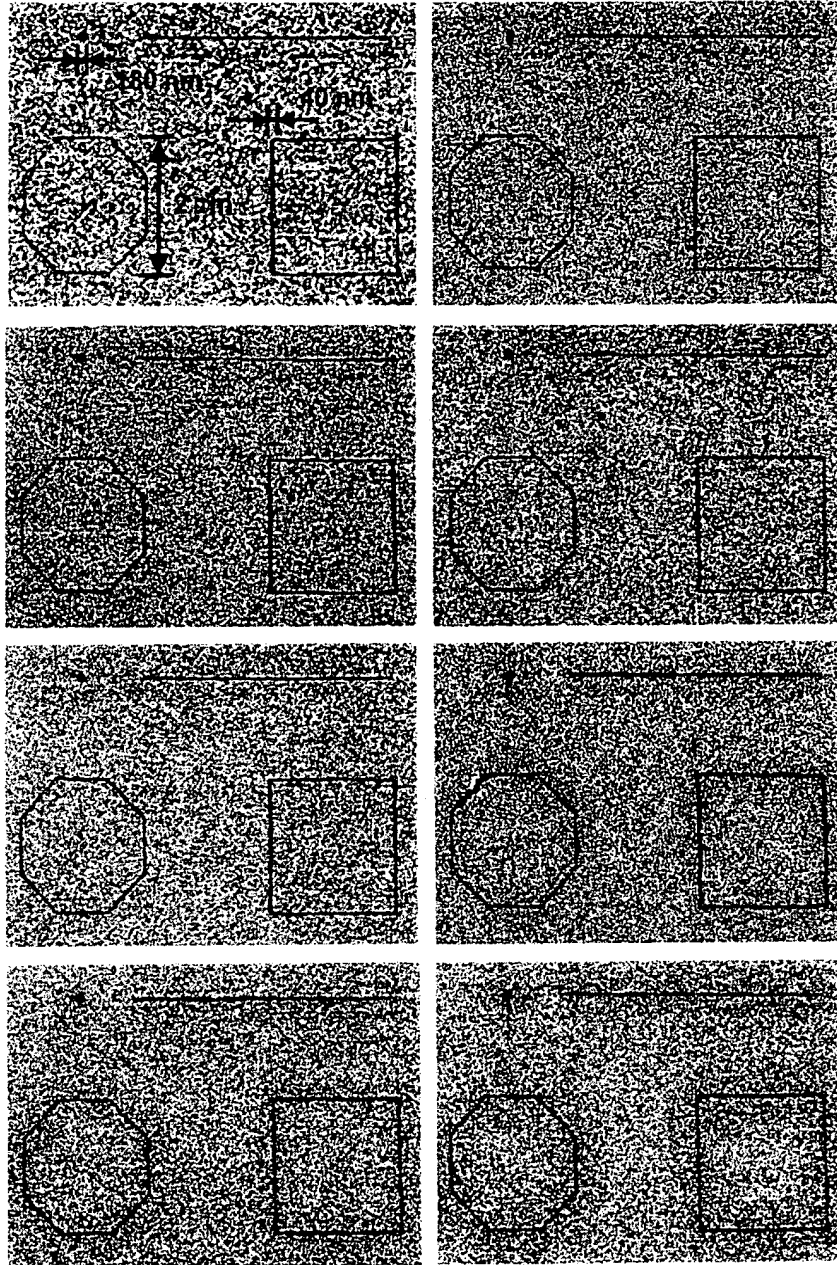


FIG. 22

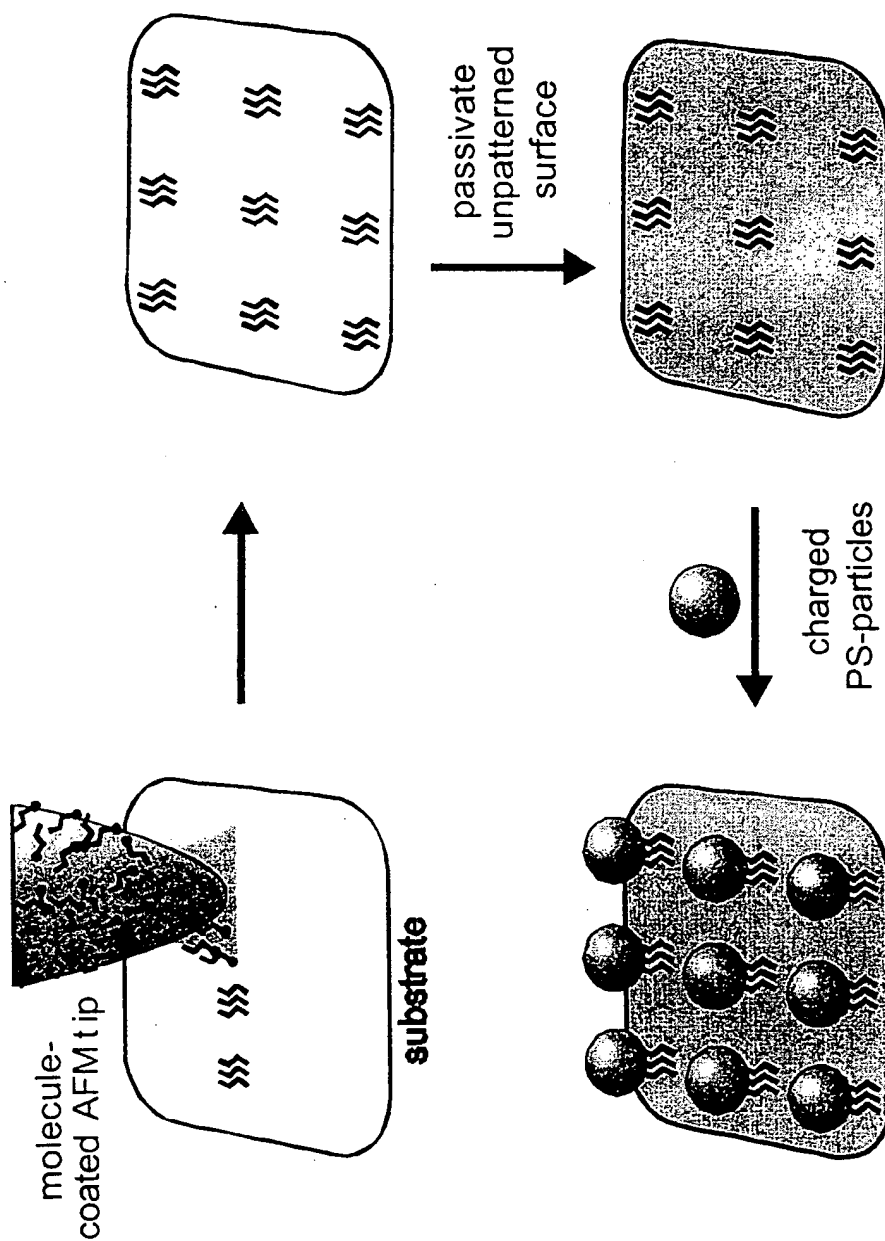


FIG. 23



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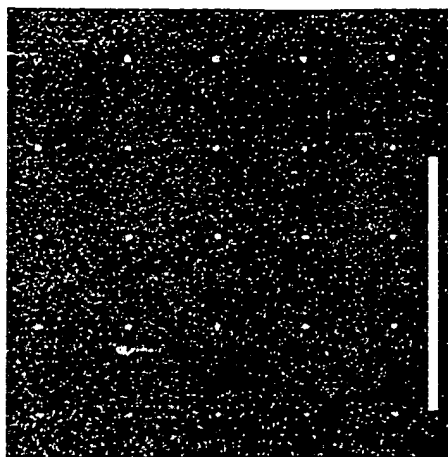


FIG. 24C

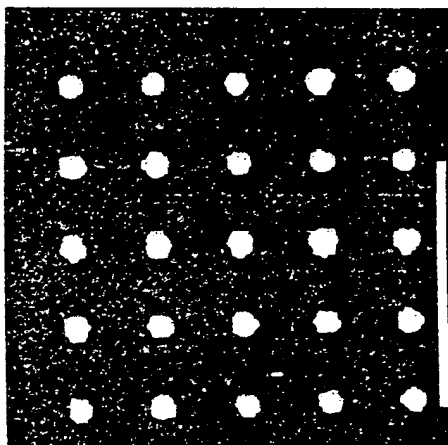


FIG. 24B

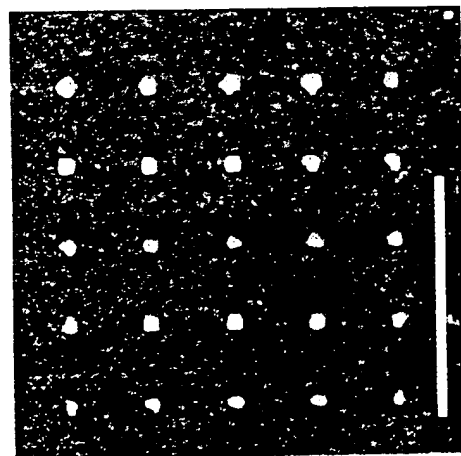


FIG. 24A



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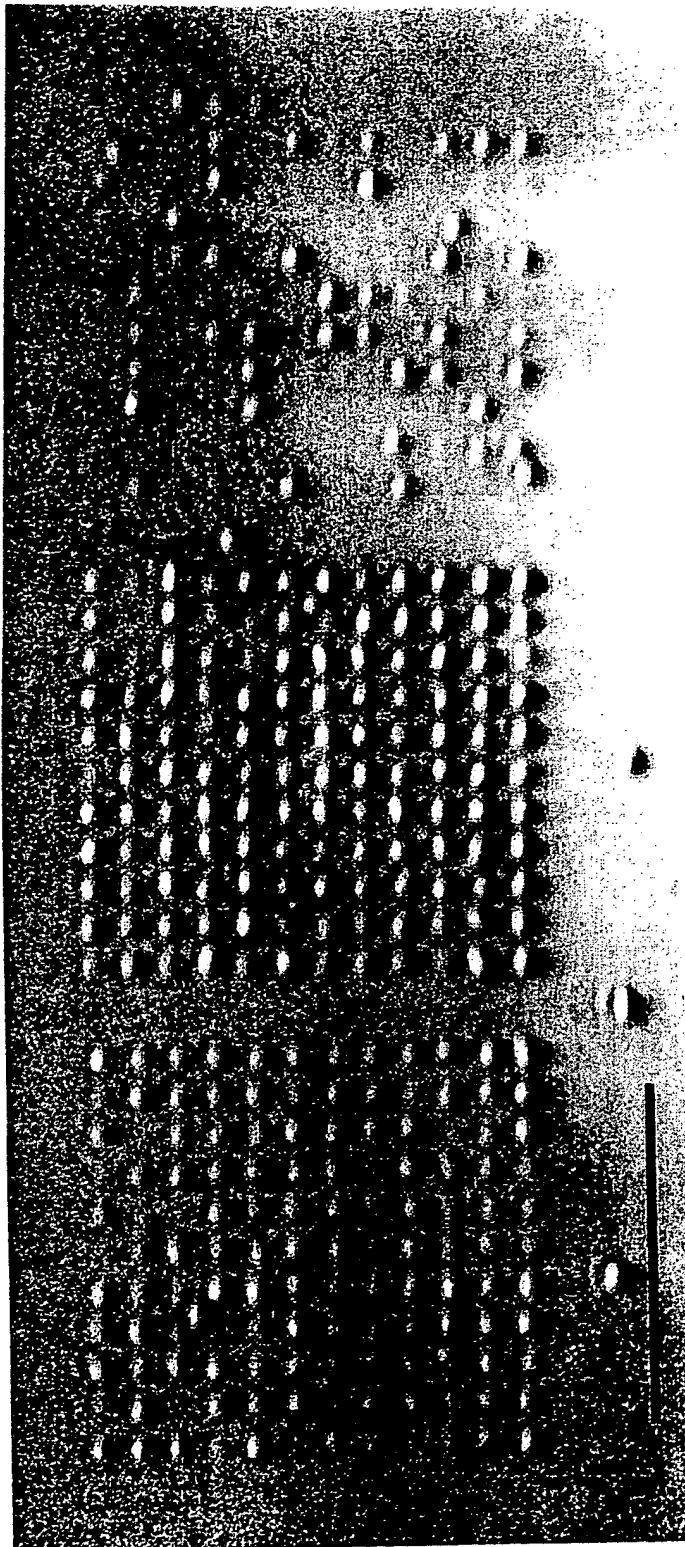


FIG. 25



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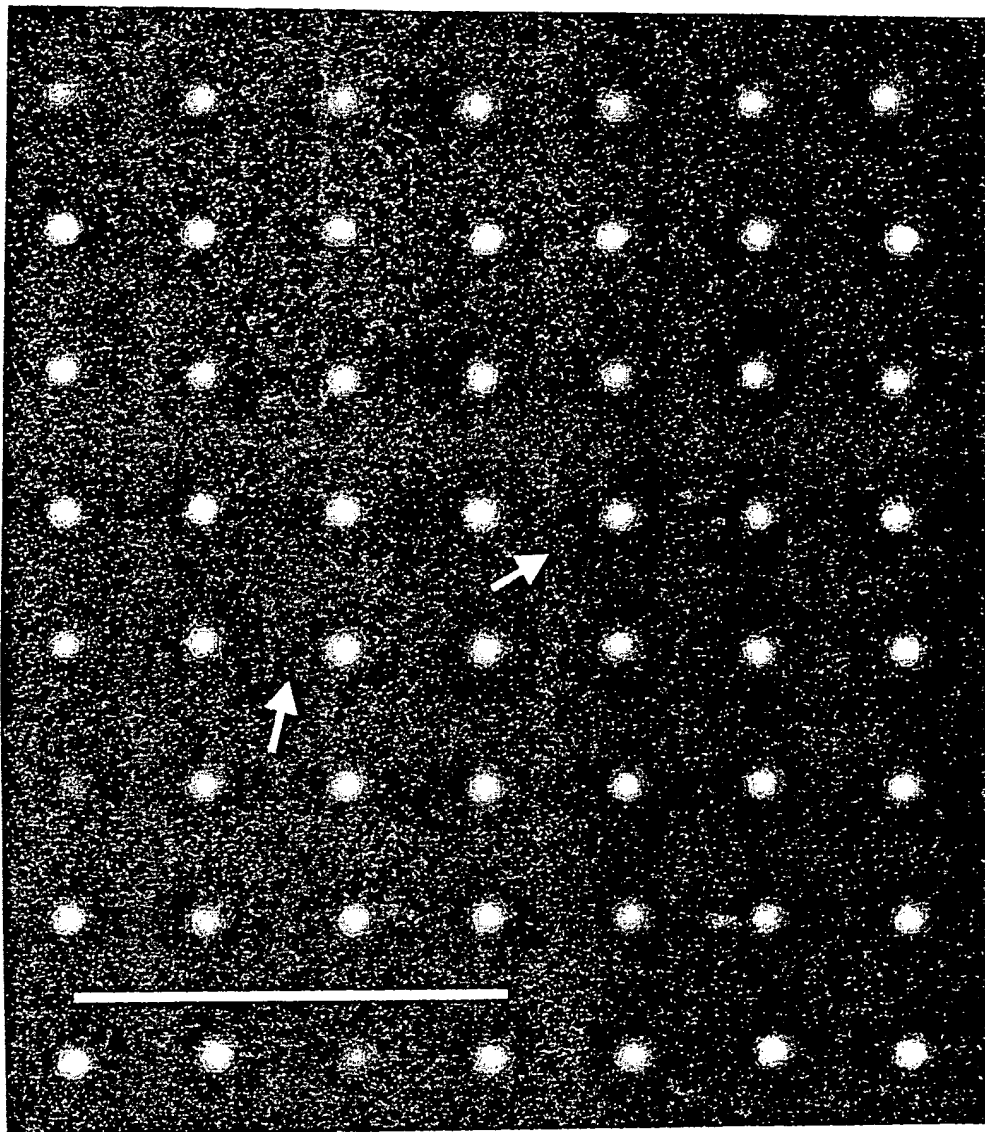


FIG. 26



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B

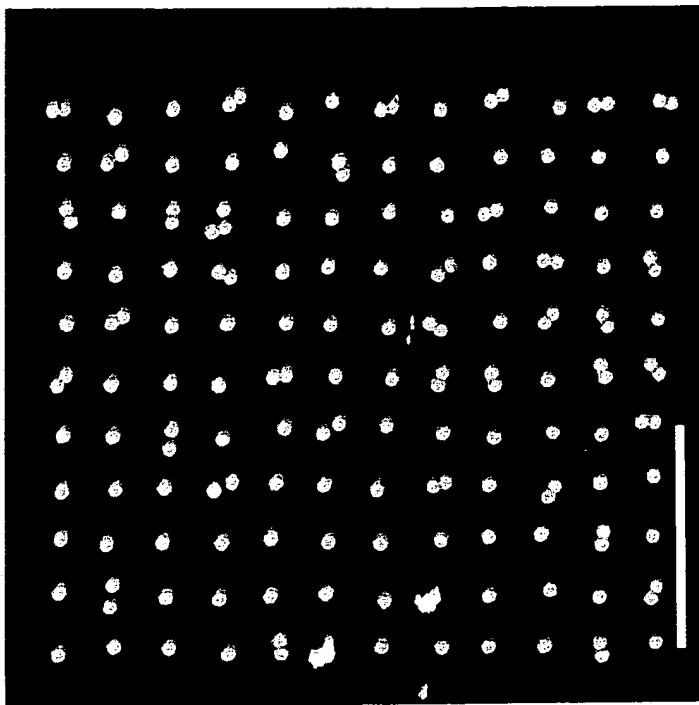


FIG. 27B

A

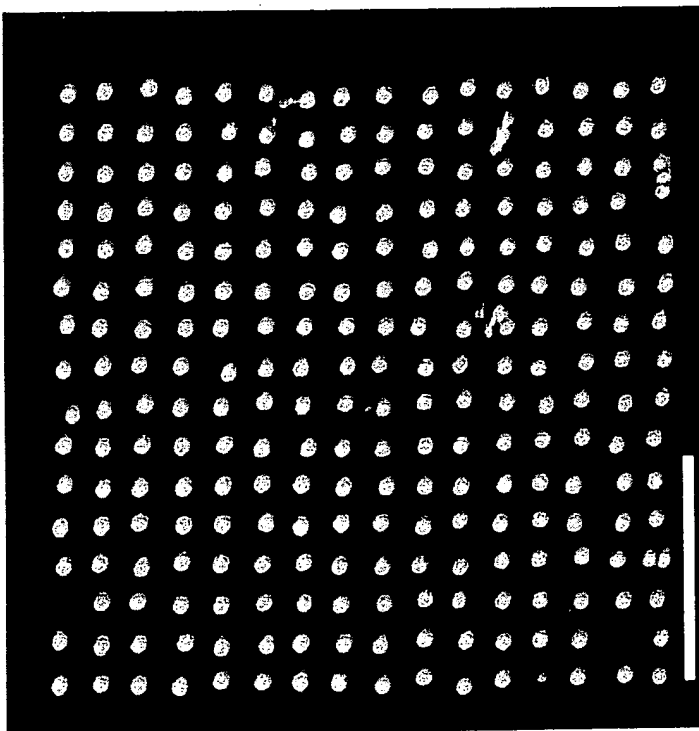
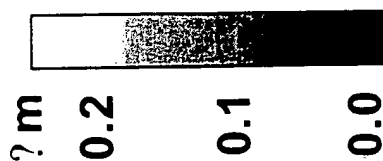


FIG. 27A





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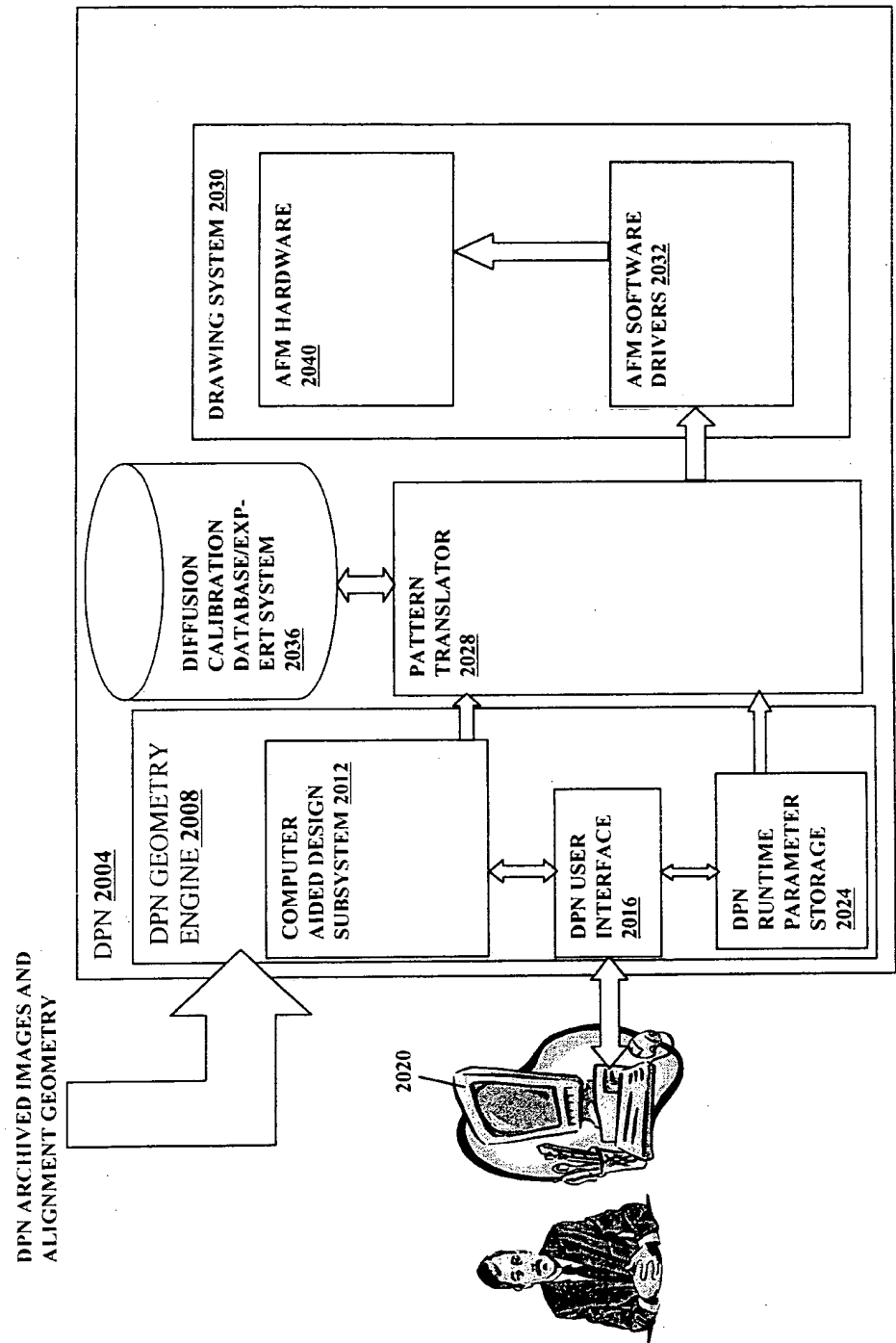


Fig. 28A

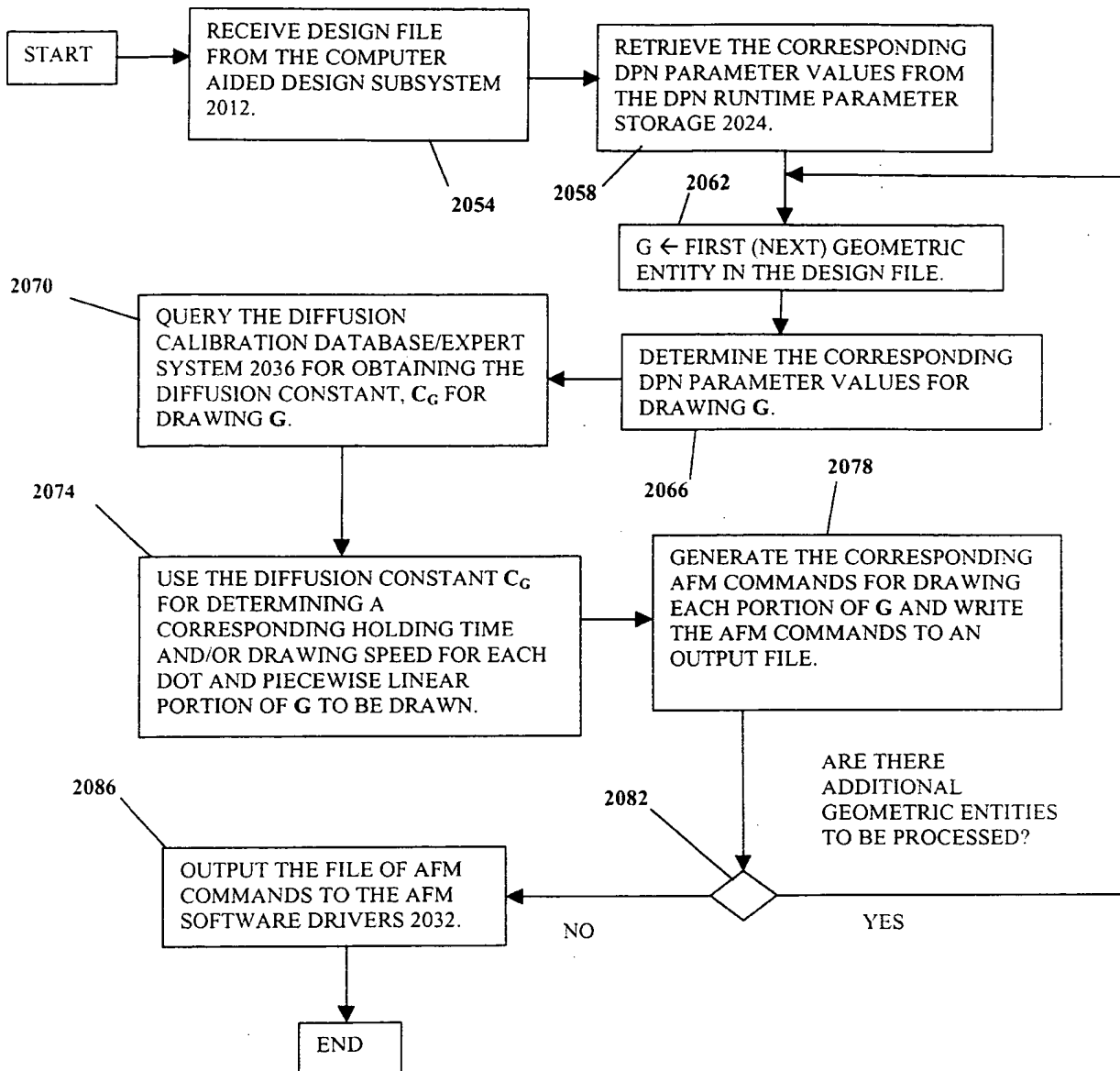


Fig. 28B